

ABSTRACT

[0253] A wireless system and method for determining the location of a fixed or mobile target configured to have a transponder on the target, a transceiver monitoring the target location, communicating between the transponder and transceiver, and a
5 processor for finding the target by virtual triangulation based on values of received position information. The processor is determines virtual triangulation based on successive values of the position information using at least three points P_1 , P_2 and P_3 of the transponder respective of the transceiver. The present invention discloses methods for finding with virtual triangulation by: (1) finding with virtual triangulation by
10 generating position information in real-time, in the case of (i) stationary and moving target, and or (ii) in the case of the presence of obstacles; (2) finding with virtual triangulation relating to the average speed of the motion of operator; and or (3) finding with simplified virtual triangulation.